

PATENT APPLICATION NO. 10/722,556

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REMARKS

At the outset, Applicant would like to extend their appreciation to the Examiner for the courtesies extended to Applicant's representative during their June 28, 2005 personal interview. The substance and any agreements reached during the interview are incorporated in the following remarks.

Summary of Office Action

In the April 4, 2005 Final Office Action, claim 11 was objected to for informalities.

Claims 1-3, 6, 11, 12, 18 and 19 were rejected under 35 U.S.C. §102(e) over U.S. Patent No. 6,583,444 to Fjelstad (Fjelstad'444).

Claims 4, 5, 7-10, 13-17 and 20 were withdrawn from consideration as being non-elected.

Summary of Response to Office Action

By this Amendment, Claims 1 and 18 have been amended. The claims currently pending in this application are Claims 1-20. Claims 1 and 18 are the only independent claims.

Response To Objection

Claims 11 was objected to in the April 4, 2005 Office Action for allegedly inadequate description in the specification. This objection is respectfully traversed for the following reasons.

Applicant respectfully submits that the specification fully supports and describes the claimed features. For example, paragraph [0048] of the specification indicates that "a ground electrode is formed on the lower surface and an anode and a cathode electrode are

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formed on the upper surface of the LED chip. Therefore, two wires for connecting the upper electrodes on the LED to the metallic films are provided for the anode and cathode.

Depending on the type, the LED chip may have the anode and the cathode that is formed on the lower and upper surfaces, respectively..." At least this portion of the specification in combination with the drawings provide support and adequate description for the features of claim 11.

In view of the above arguments, it is respectfully submitted that claim 11 is free of minor informalities. Withdrawal of the objection is respectfully requested.

Pending Claims Define Allowable Subject Matter

In the April 4, 2005 Office Action, claims 1-3, 6, 11, 12, 18 and 19 were rejected under 35 U.S.C. §102(e) over U.S. Patent No. 6,583,444 to Fjelstad (Fjelstad'444). This rejection is respectfully traversed for the following reasons.

Fjelstad'444 discloses a semiconductor package that has a light-sensitive chip. As shown in Fig. 8B of Fjelstad'444 (reproduced at right), the semiconductor package 310 can include a light emitting chip 332 that is attached to a metallic conductive layer 374. The metallic conductive layer 374 is then attached at its lower surface to a conductive base 326, which serves as an electrical connection for the package 310. A first chip contact 333 located on the front face 334 of the chip 332 is electrically connected to a conductive pad 328 by a conductive wire 344. The conductive pad 328 also serves as an electrical connection for the package 310.

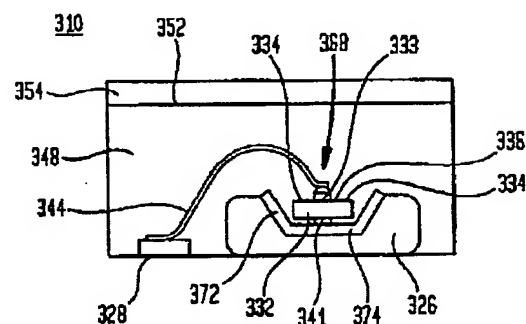


Fig. 8B of Fjelstad'444

By contrast, claim 1 includes the feature of a light-emitting diode chip that includes a metallic film being composed of a substantially single material and being directly connected to one of the electrodes of the light emitting diode chip, and the

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metallic film being exposed at the bottom mount surface of the light-emitting diode. Fjelstad'444 fails to disclose or teach at least these features of independent claim 1. Moreover, the metallic conductive layer 374 separates the conductive base 326 from the chip 332 in Fjelstad'444.

With regard to independent claim 18, Fjelstad'444 fails to disclose or teach at least the feature of a metallic film exposed from a surface of an optically transmissive resin, an electrode of an LED chip being directly connected to the metallic film to achieve electrical conduction there between, and the metallic film being composed of a substantially single material.

Because Fjelstad'444 fails to disclose or teach each and every feature of either of Applicant's pending independent claims 1 or 18, Fjelstad'444 cannot anticipate the claims. Accordingly, it is respectfully submitted that independent claims 1 and 18 and all claims depending therefrom define over the art of record and are in form for allowance. Withdrawal of the rejection under 35 U.S.C. §102(e) is respectfully requested.

In accordance with the Commissioner's position in 1184 O.G. 86, Applicant intends to request rejoinder of method claim 20 when a product claim is deemed allowable.

Conclusion

Early and favorable action with respect to this application is respectfully requested. Should any questions arise in connection with this application or should the Examiner believe that a telephone conference with the undersigned would be helpful in resolving any remaining issues pertaining to this application, the undersigned respectfully requests that he be contacted at the number indicated below.

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If there are any other fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 50-2821. If a fee is required for an extension of time under 37 C.F.R. § 1.136 is not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account No. 50-2821.

Respectfully submitted,
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Dated: August 4, 2005

By: 

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